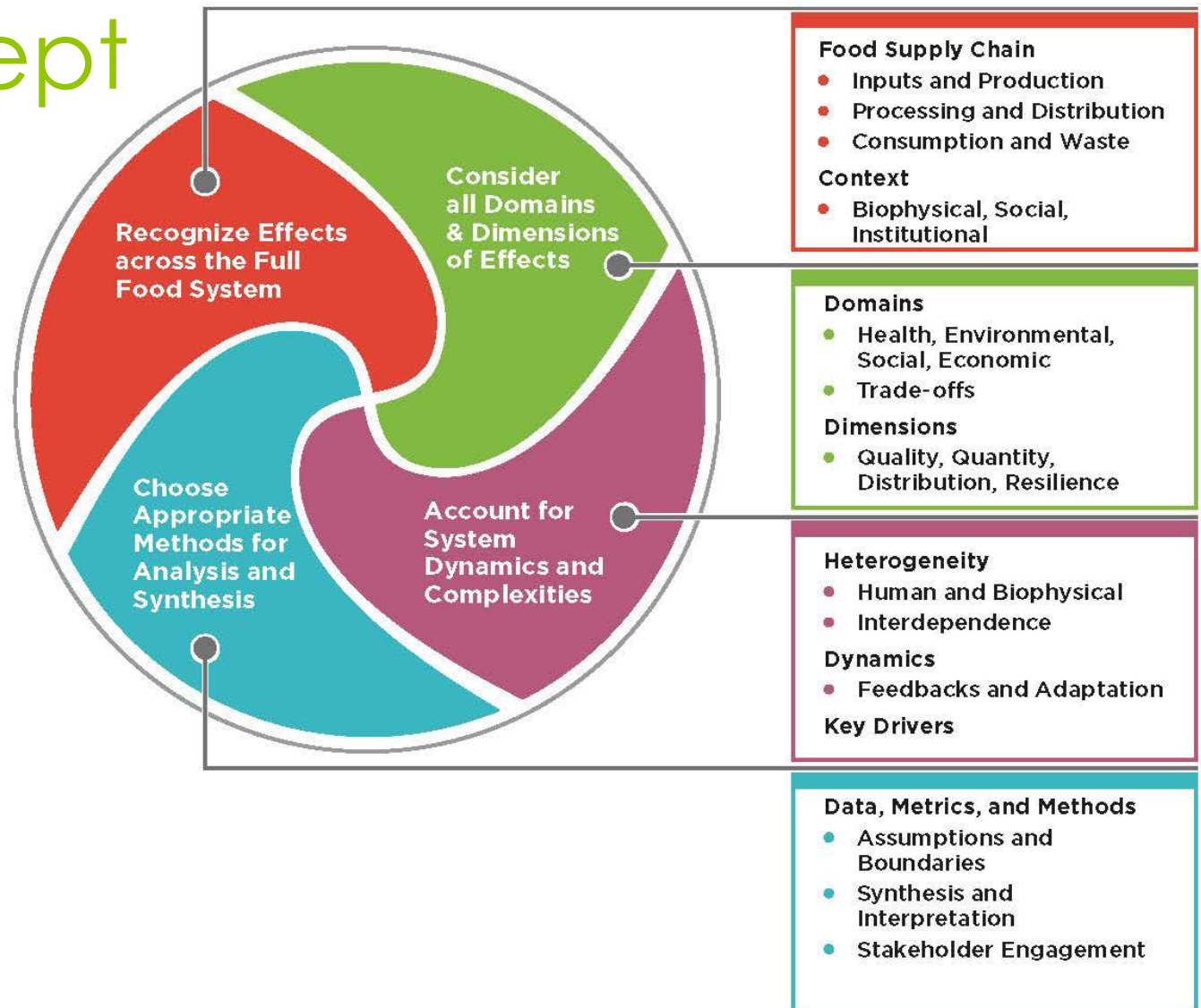


“The transformative approach to improving agricultural sustainability... would facilitate the adoption of production approaches that capitalize on synergies, efficiencies, and resilience characteristics associated with complex natural systems and their linked social, economic, and biophysical systems.”

New markets, new policies, new research

Source: *Toward Sustainable Agricultural Systems in the 21st Century*. National Research Council, 2010.

Framework Concept



Future Research Needs

- 1. *Integration*** across multiple jurisdictions, sectors, and disciplines
 - Community-based research agenda
 - Pathways for transformation



Future Research Needs

1. Integration

2. Scaling out and up

- Urban / rural metabolic flows
- Scale-appropriateness

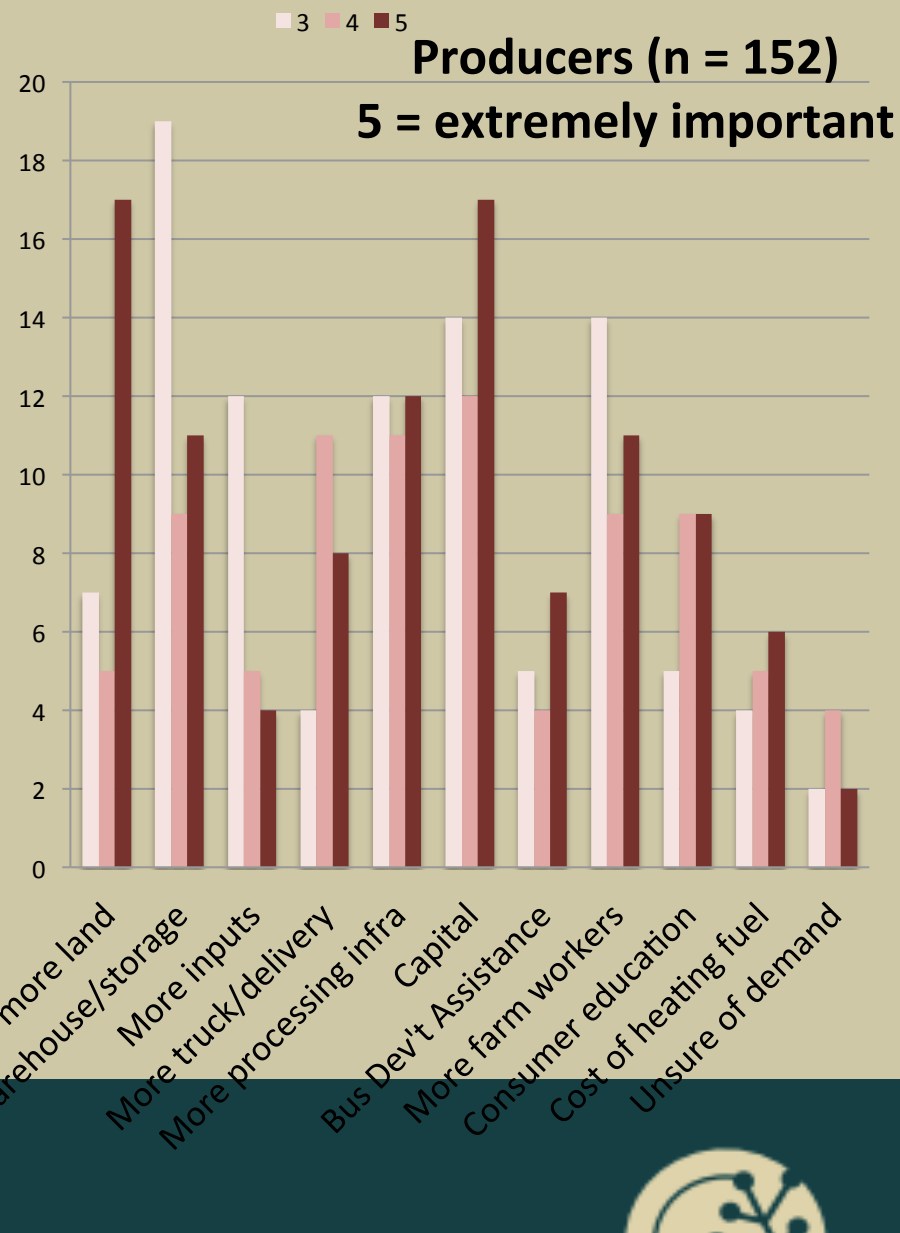


Future Research Needs

1. *Integration*
2. *Scaling out and up*
3. Innovative transboundary ***governance*** structures



Food Hub Survey



Agroecology

- **Integration**

Agroecological farms / research collaborative / farmer-led network; demonstrates, animates, trains, monitors, certifies and advocates; training shared practices / workshops, comparative research, EGAS

- **Scale**

South-north knowledge transfer through workshops—including August 2016 following World Congress of Rural Sociology (Toronto)

- **Innovative Governance**

Co-op, private sector farmers partnering through int'l network; collaborative distribution and retail; ALUS; participatory certification



Agroecology: S→N knowledge transfer



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Habitat reclamation



Integrated livestock farming systems



Intensive, diverse crop production



Food Share

Increasing Access, Knowledge and Consumption of Vegetables and Fruits through Community-led Projects



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FoodShare

- **Integration**

Non-profit hub food centre demonstrates, animates, trains and advocates through produce distribution, growing, cooking and school programs

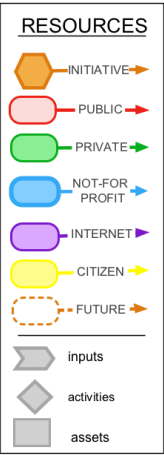
- **Scale**

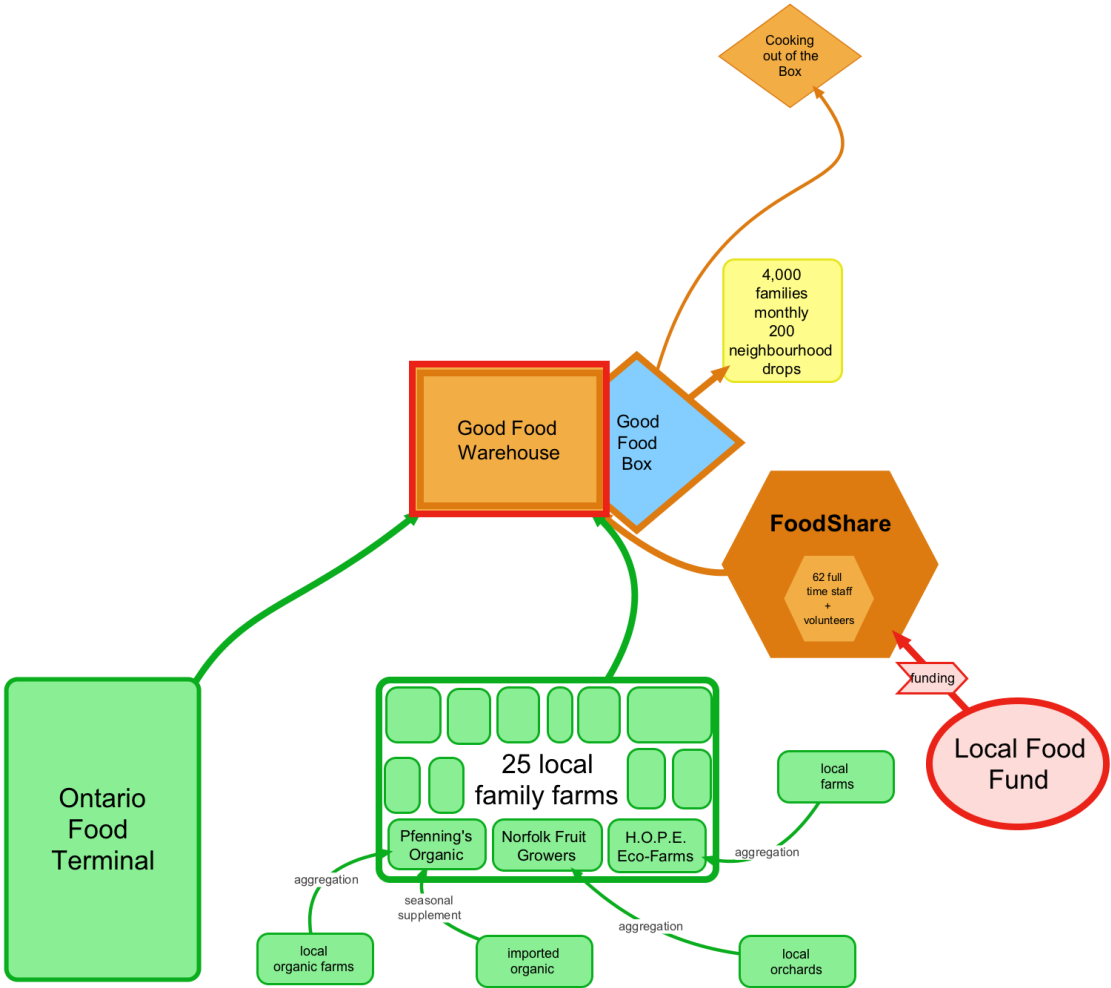
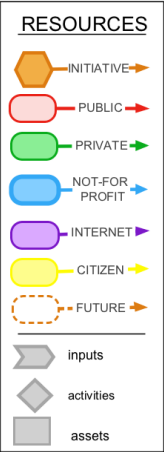
From 40 boxes in 1994 to selling \$2.1 million produce through the Good Food Program in 2014

- **Innovative Governance**

New third sector supply chain, partnering with private and co-op sector farmers and distributors

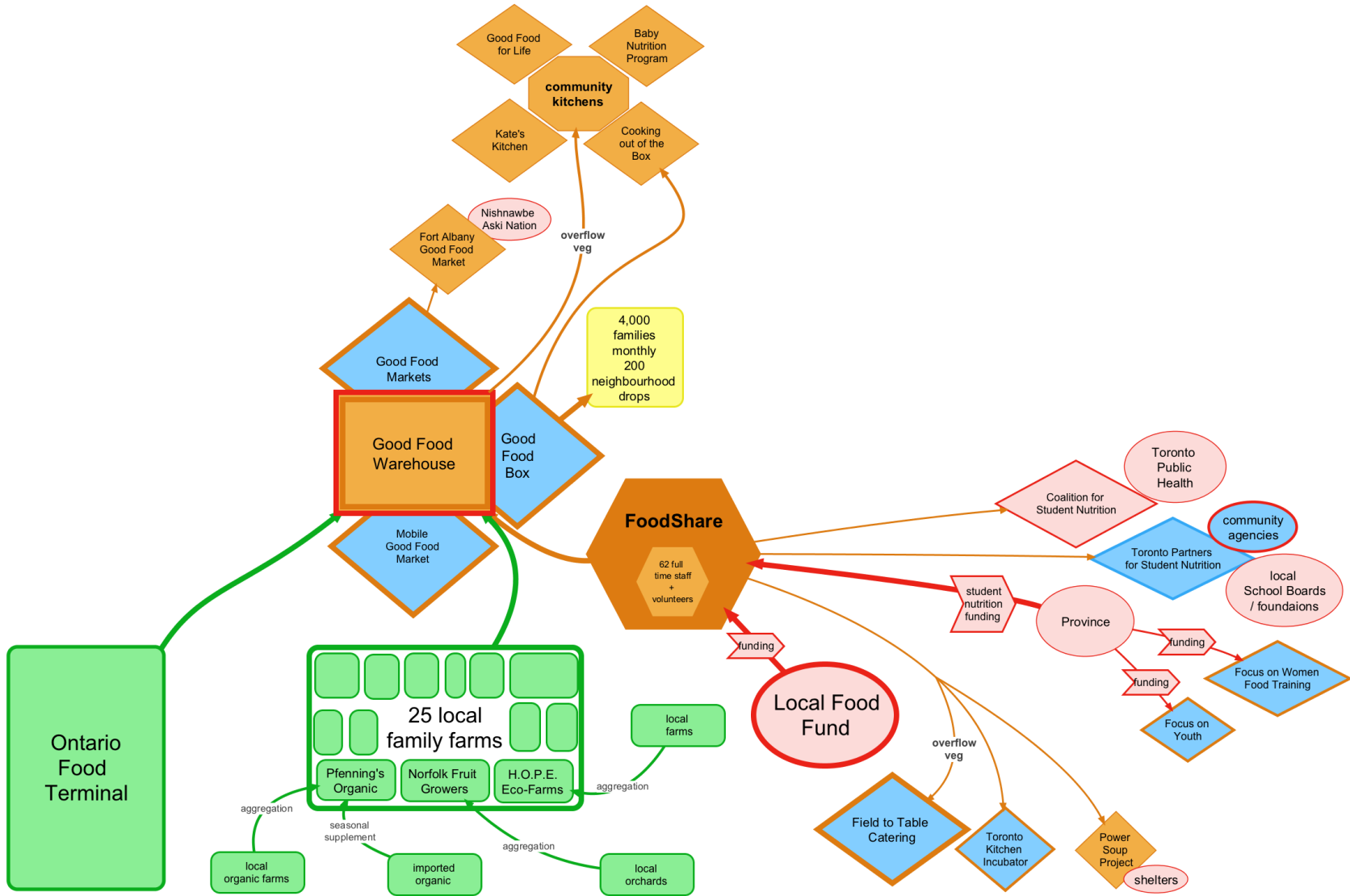


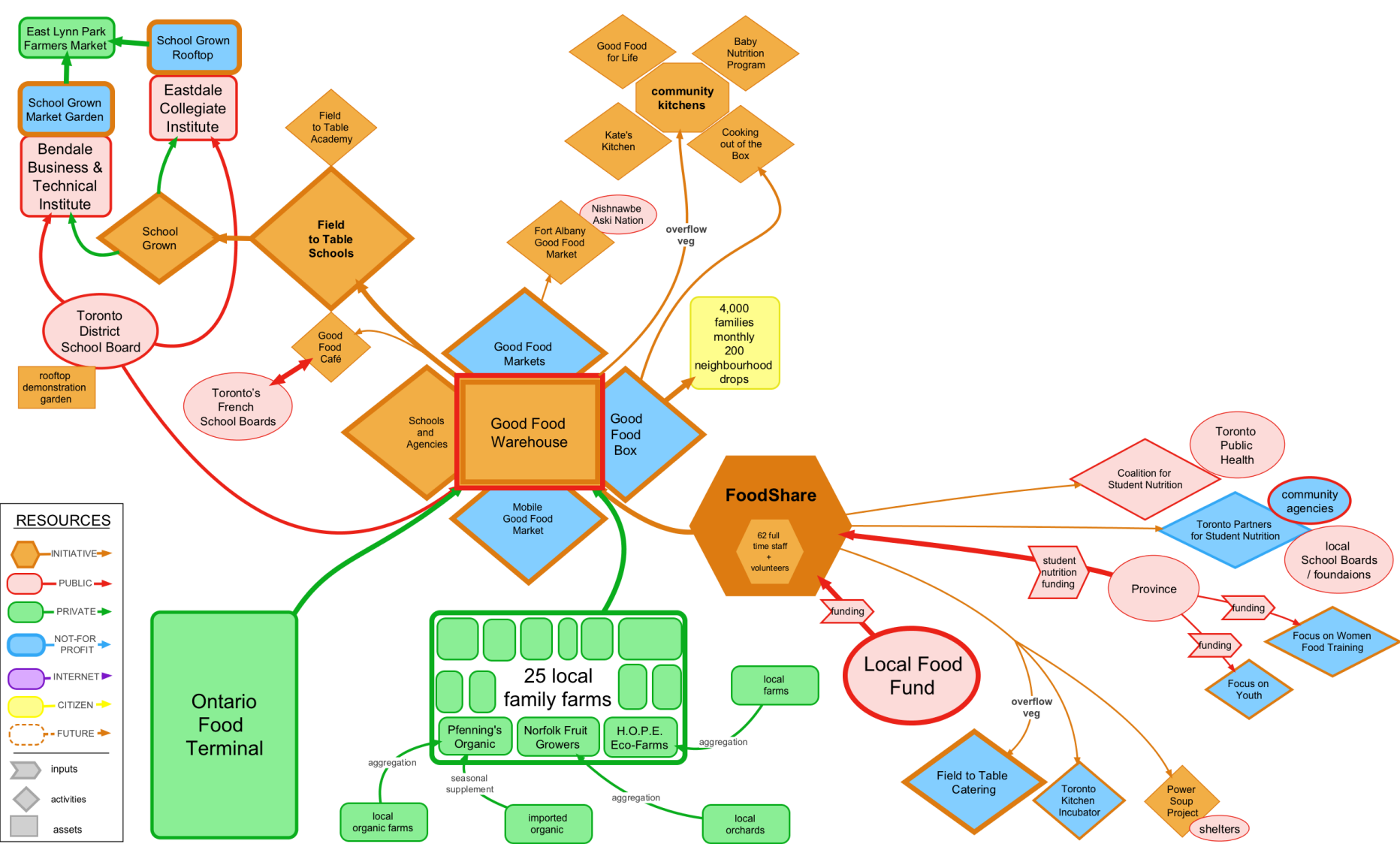


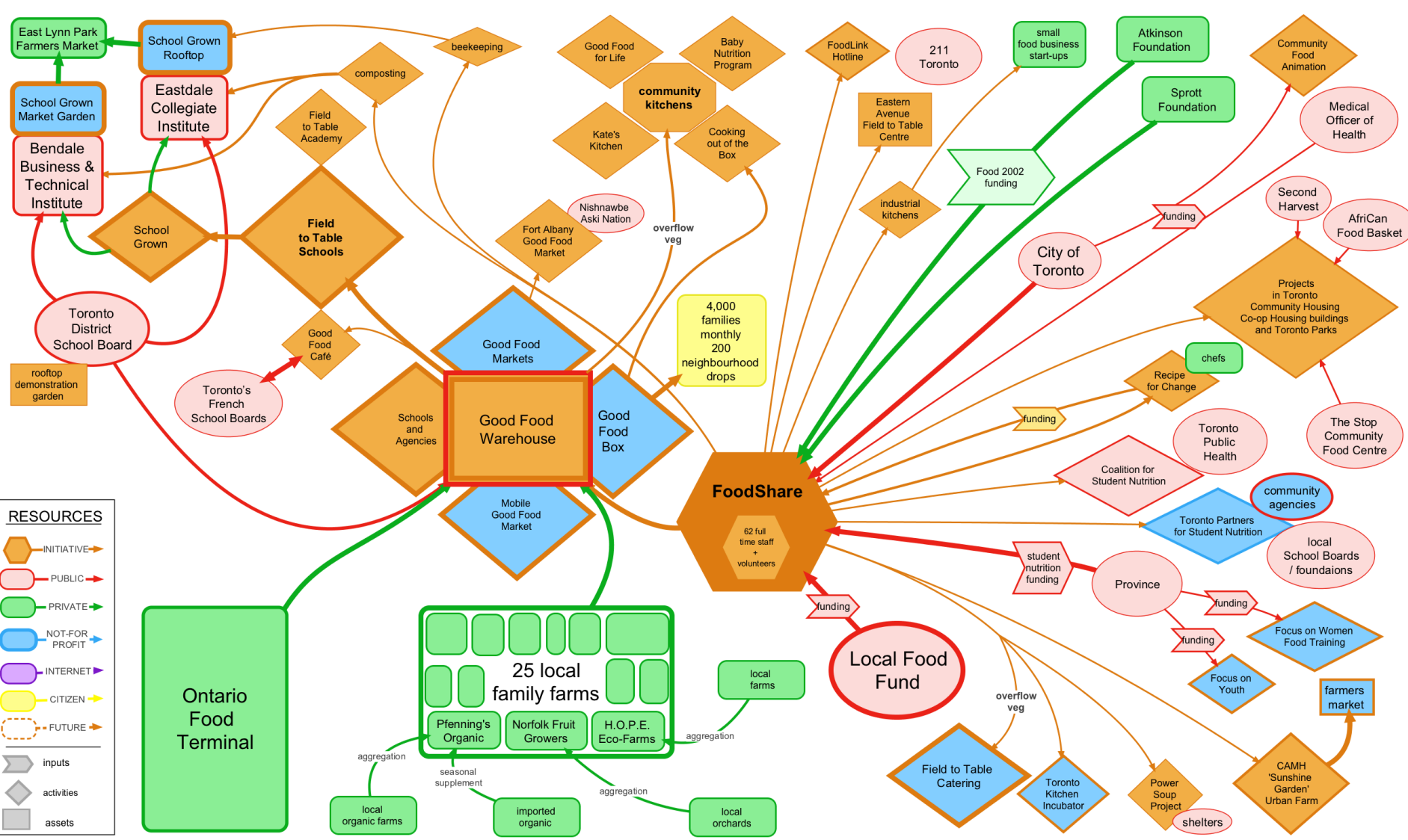


RESOURCES

- INITIATIVE
- PUBLIC
- PRIVATE
- NOT-FOR-PROFIT
- INTERNET
- CITIZEN
- FUTURE
- inputs
- activities
- assets







Project SOIL

Shared Opportunities on Institutional Lands



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Project SOIL

Shared Opportunities on Institutional Lands

- Integration
 - Food / Health
 - Value of non-economic benefits
- Scale
 - Demonstration, replication, interscalar
- Innovative governance
 - Public sector — land and resources



Integration, Scale and Governance

The Challenges of Food Systems Research

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